

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

IN THE CLAIMS:

1. (Currently Amended) Touch-sensitive input device with
 - a. a first plate ~~(10)~~ with a first conductive coating ~~(11)~~ on which are provided opposing first and second bus conductors ~~(12, 13; 112, 113)~~ and
 - b. a second plate ~~(20)~~ with a second conductive coating ~~(21)~~ on which are provided opposing third and fourth bus conductors ~~(22, 23; 122, 123)~~,
 - c. whereby the plates ~~(10, 20)~~ are arranged on top of each other at a distance from each other in such a way that the conductive coatings ~~(11, 21)~~ are facing each other,
 - d. a first measuring device~~(32)~~ which applies a reference signal to the bus conductors ~~(12, 13; 112, 113)~~ of the first plate ~~(10)~~ and determines a first measured value resulting from the first conductive coating,
 - e. a second measuring device ~~(33)~~, which applies a reference signal to the bus conductors ~~(22, 23; 122, 123)~~ of the second plate ~~(20)~~ and determines a second measured value resulting from the second conductive coating second measured value, and
 - f. a monitoring device ~~(34)~~,
 - i. to which the measuring devices transmit the first and the second measured value,
 - ii. which stores the transmitted measured values in a memory ~~(35)~~,

- iii. compares the measured values with each other, and
- iv. which, on the basis of deviations determined from the comparison, determines and signals a malfunction of the input device.

2. (Currently Amended) Touch-sensitive input device according to claim 1, ~~characterized in that~~ wherein the plates (10, 20) are arranged in such a way that the first and second bus conductors (12, 13) are arranged in a first coordinate direction (X) and the third and fourth bus conductors (22, 23) are arranged in a second coordinate direction (Y) and that an evaluation device (30) is provided to determine a point of contact in the areas defined by conductive coatings which is connected via connecting leads (14, 15, 24, 25) which is connected to the first to fourth bus conductors (12, 13, 22, 23) respectively in order to determine a point of contact in the area defined by conducting coatings.

3. (Currently Amended) Touch-sensitive input device according to claim 1, ~~characterized in that~~ wherein on the second plate (20), fifth and sixth bus conductors (126, 127) are arranged in a first coordinate direction (X) and the third and fourth bus conductors are arranged in a second coordinate direction (Y) and that an evaluation device (30) is provided for the determination of a point of contact in the area defined by conductive coatings, which is connected via connecting leads (114, 115, 124, 125, 128, 129) to the third to sixth (123, 124, 126, 127) and with the first or second bus conductor (112, 113) respectively.

4. (Currently Amended) Device according to claim 1, ~~2 or 3, characterized in that~~ wherein the first and second measuring device (32, 33) are combined to form one measuring device which

alternatively performs the measurement at the conductive coating of the first or the second plate (10, 20).

5. (Currently Amended) Device according to ~~any one of claims 1 to 4, characterized in that~~ claim 1, wherein the first or second measuring device (32, 33) are integrated in the monitoring device (34).

6. (Currently Amended) Device according to ~~any one of claims 1 to 5, characterized in that~~ claim 2, wherein the monitoring device (34) is integrated in the evaluation device (30).

7. (Currently Amended) Device according to ~~any one of claims 1 to 6, characterized in that~~ claim 1, wherein the first and/or second measuring device (32, 33) applies as a reference signal a voltage to the first and second or the third and fourth bus conductors (12, 13, 22, 23; 112, 113, 122, 123) and determines the current established as a measured value.

8. (Currently Amended) Device according to ~~any one of claims 1 to 6, characterized in that~~ claim 1, wherein the first and/or second measuring device (32, 33) stores as a reference signal a current in the first and second or the third and fourth bus conductors (12, 13, 22, 23; 112, 113, 122, 123) and determines the voltage established as a measured value.

9. (Currently Amended) Device according to ~~any one of the preceding claims, characterized in that~~ claim 1, wherein the monitoring device (34) accesses measured values stored a short

period ago in order to detect short-term malfunctions and/or accesses measured values stored a longer period ago in order to identify long-term malfunctions.

10. (Currently Amended) Device according to ~~any one of the preceding claims, characterized in that~~ claim 1, wherein monitoring device (34) deletes measured values stored before a predetermined time from the memory in order to release the corresponding memory area for the storage of new measured values and/or overwrites measured values of this type with new measured values.

11. (Currently Amended) Device according to ~~any one of the preceding claims, characterized in that~~ claim 2, wherein correction device (37) is provided to which are fed an output signal from the evaluation device (30) and an output signal from the monitoring device (34) signaling a malfunction and which, on the basis of measured values stored in the memory (35), corrects the output signal from the evaluation device (30) and outputs a corrected output signal.

12. (Currently Amended) Device according to ~~any one of the preceding claims, characterized in that~~ claim 2, wherein the measuring devices (32, 33) emit a signal at an output (32a, 33a) which is fed to the evaluation device (30) and which causes the evaluation device (30) to interrupt the determination of the point of contact in the area defined by conductive coatings.

13. (Currently Amended) Device according to ~~any one of the preceding claims, characterized in that~~ claim 1, wherein the memory (35) is a non-volatile memory.

14. (Currently Amended) Fault detection device

for a touch-sensitive input device with a first plate (10) with a first conductive coating (11) on which are provided opposing first and second bus conductors (12, 13; 112, 113) and a second plate (20) with a second conductive coating (21) on which are provided opposing third and fourth bus conductors (22, 23; 122, 123), whereby the plates (10, 20) are arranged on top of each other at a distance in such a way that the conductive coatings (11, 21) are facing each other,

with

- a. a first measuring device (32) which is configured for the application of a reference signal to the bus conductors (12, 13; 112, 113) on the first plate (10) and for the determination of a first measuring value resulting from the first conductive coating,
- b. a second measuring device (33) which is configured for the application of a reference signal to the bus conductors (22, 23; 122, 123) on the second plate (20) and for the determination of a second measuring value resulting from the second conductive coating, and
- c. a monitoring device (34),
 - i. to which the measuring devices transmit the first and the second measured value,

- ii. which stores the transmitted measured values in a memory (35),
- iii. compares the measured values with each other, and
- iv. which, on the basis of deviations determined from the comparison, determines and signals a malfunction of the input device.

15. (Currently Amended) Fault detection device according to claim 14, ~~characterized in that~~ wherein the first and the second measuring device (32, 33) are combined to form one measuring device which alternatively performs the measurement at the conductive coating of the first or the second plate (10, 20).

16. (Currently Amended) Fault detection device according to claim 14 ~~or 15, characterized in that~~ wherein the first or second measuring device (32, 33) are integrated in the monitoring device (34).

17. (Currently Amended) Fault detection device according to claim 14, ~~15 or 16, characterized in that~~ wherein the monitoring device (34) is integrated in ~~the~~ an evaluation device (30).

18. (Currently Amended) Fault detection device according to ~~any one of claims 14 to 17,~~ ~~characterized in that~~ claim 14, wherein the first and/or second measuring device (32, 33) applies as a reference signal a voltage to the first and second or the third and fourth bus conductors (12, 13 22, 23; 112, 113 122, 123) and determines the current established as a measured value.

19. (Currently Amended) Fault detection device according to ~~any one of claims 14 to 17,~~
~~characterized in that~~ claim 14, wherein the first and/or second measuring device (32, 33)
stores as a reference signal a current in the first and second or the third and fourth bus
conductors (12, 13 22, 23; 112, 113 122, 123) and determines the voltage established as a
measured value.

20. (Currently Amended) Fault detection device according to ~~any one of the preceding claims~~
~~14 to 19, characterized in that~~ claim 14, wherein the monitoring device (34) accesses
measured values stored a short period ago in order to detect short-term malfunctions and/or
accesses measured values stored a longer period ago in order to identify long-term
malfunctions.

21. (Currently Amended) Fault detection device according to ~~any one of the preceding claims~~
~~14 to 20, characterized in that~~ claim 14, wherein the monitoring device (34) deletes measured
values stored before a predetermined time from the memory in order to release the
corresponding memory area for the storage of new measured values and/or overwrites
measured values of this type with new measured values.

22. (Currently Amended) Fault detection according to ~~any one of the preceding claims 14 to~~
~~21, characterized in that~~ claim 17, wherein a correction device (37) is provided to which are
fed an output signal from the evaluation device (30) and an output signal from the monitoring
device (34) signaling a malfunction and which, on the basis of measured values stored in the

memory (35), corrects the output signal from the evaluation device (30) and outputs a corrected output signal.

23. (Currently Amended) Fault detection device according to ~~any one of the preceding claims 14 to 22, characterized in that~~ claim 17, wherein the measuring devices (32, 33) emit a signal at an output (32a, 33a) which is fed to the evaluation device (30) and which causes the evaluation device (30) to interrupt the determination of the point of contact in the area defined by conductive coatings.

24. (Currently Amended) Fault detection device according to ~~any one of the preceding claims 14 to 23, characterized in that~~ claim 14, wherein the memory (35) is a non-volatile memory.